

1. Running EPA TANKS Program

Use the tanks program as per EPA guidelines keeping the following directions in mind:

- Under the IDENTIFICATION tab, use “Identification No.” field for tanks ID. This field must contain six (6) or less alphanumeric characters with no spaces or special characters. This could be an Application Number, Permit Number, Device ID, or just a Tank ID.
- Also under the IDENTIFICATION tab, use the “Description” field to uniquely describe the tanks, including its classification as permitted or not.

The screenshot shows the 'Vertical Fixed Roof Tank' window of the EPA TANKS program. The window has a title bar and five tabs: 'Identification', 'Physical Characteristics', 'Site Selection', 'Tank Contents', and 'Monthly Calculations'. The 'Identification' tab is active. Inside the tab, there are several input fields: 'Identification No.' with the value 'T143B', '* Description:' with the value 'Device D273 for light crude from the west', '* State:' with a dropdown menu showing 'California', '* City:' with a dropdown menu showing 'Long Beach', and '* Company:' with a dropdown menu showing 'XXXXXXX'. Below these fields is a section labeled '* Optional'. At the bottom of the window, there are five buttons: 'Copy', 'Run Report', 'Save', 'Close', and 'Help'.

Field	Value
Identification No:	T143B
* Description:	Device D273 for light crude from the west
* State:	California
* City:	Long Beach
* Company:	XXXXXXX

- EPA TANKS program contains speciation and toxic profiles for certain petroleum products; however, the user can build the applicable speciation profiles under the “Tank Content” tab. In order to utilize toxic profiles, TANKS must be run in Partial Speciation for Multi-Component material. The user can modify the existing profiles with specific data or build a new profile for the stored material.

Vertical Fixed Roof Tank

Identification | Physical Characteristics | Site Selection | Tank Contents | Monthly Calculations

Chemical Category of Liquid: Crude Oils

Single or Multi-Component Liquid: Multiple

Speciation Option: Partial Speciation

Mixture Name: Crude oil (RVP 5)

Average Liquid Surface Temperature	66.430259
Minimum Liquid Surface Temperature (F):	60.992995
Maximum Liquid Surface Temperature	71.867522
Bulk Liquid Temperature (F):	64.328333
Vapor Pressure (psia):	3.2601
Minimum Vapor Pressure (psia):	2.9344
Maximum Vapor Pressure (psia):	3.6143
Liquid Molecular Weight:	207
Vapor Molecular Weight:	50

Copy Speciation Profile View/Add Components

Calculate Mixture Properties

Delete Mixture

Next Mixture >

< Previous Mixture

Add Mixture

Mixture 1 of 1

Copy Run Report Save Close Help

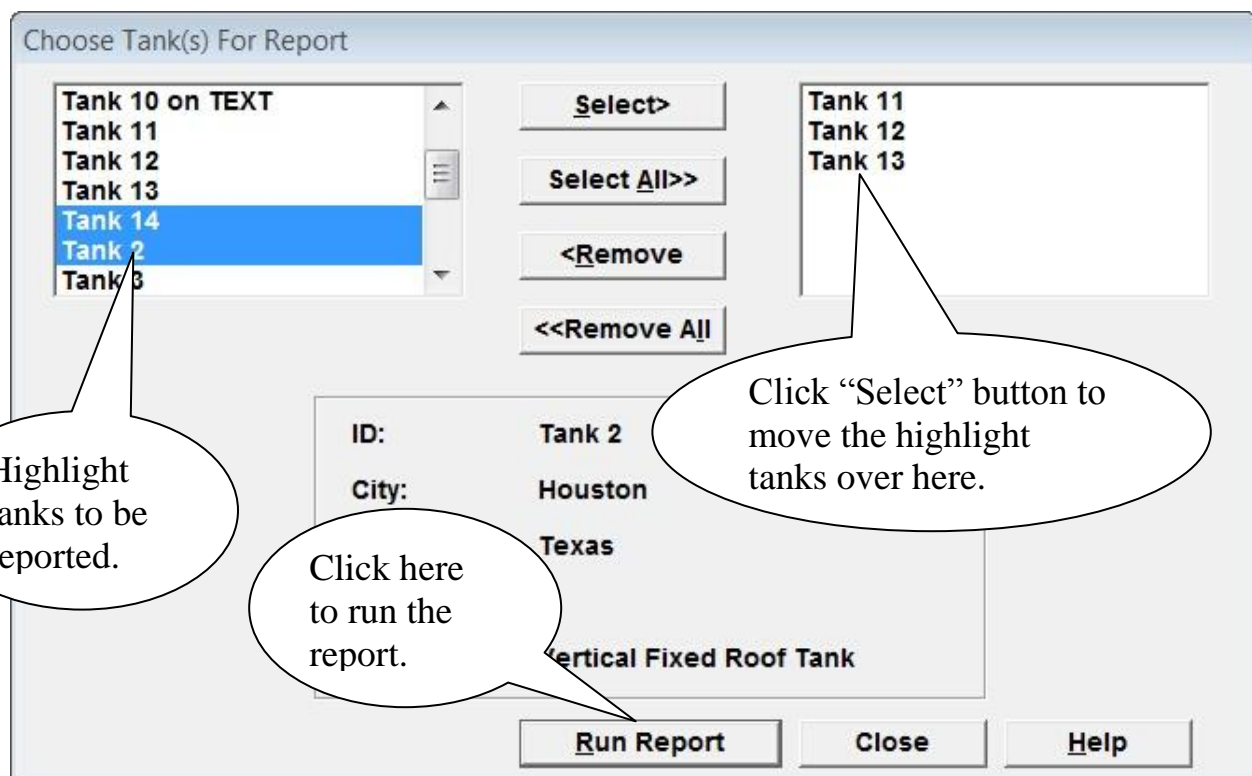
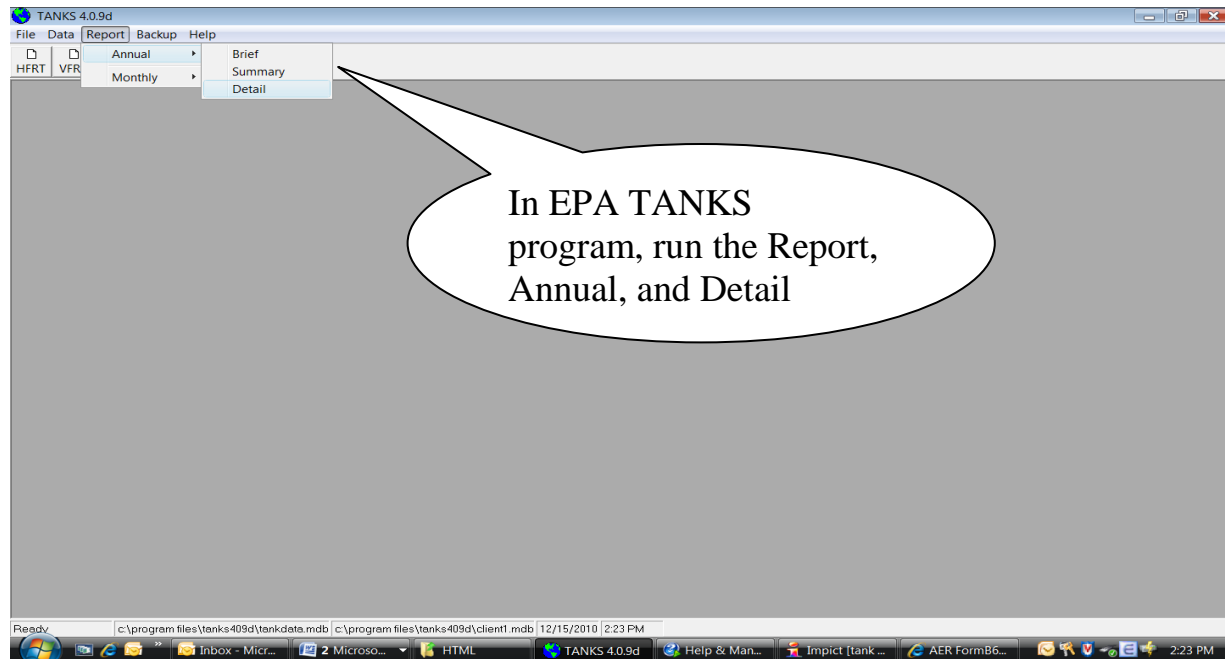
Use this to add/modify existing profiles.

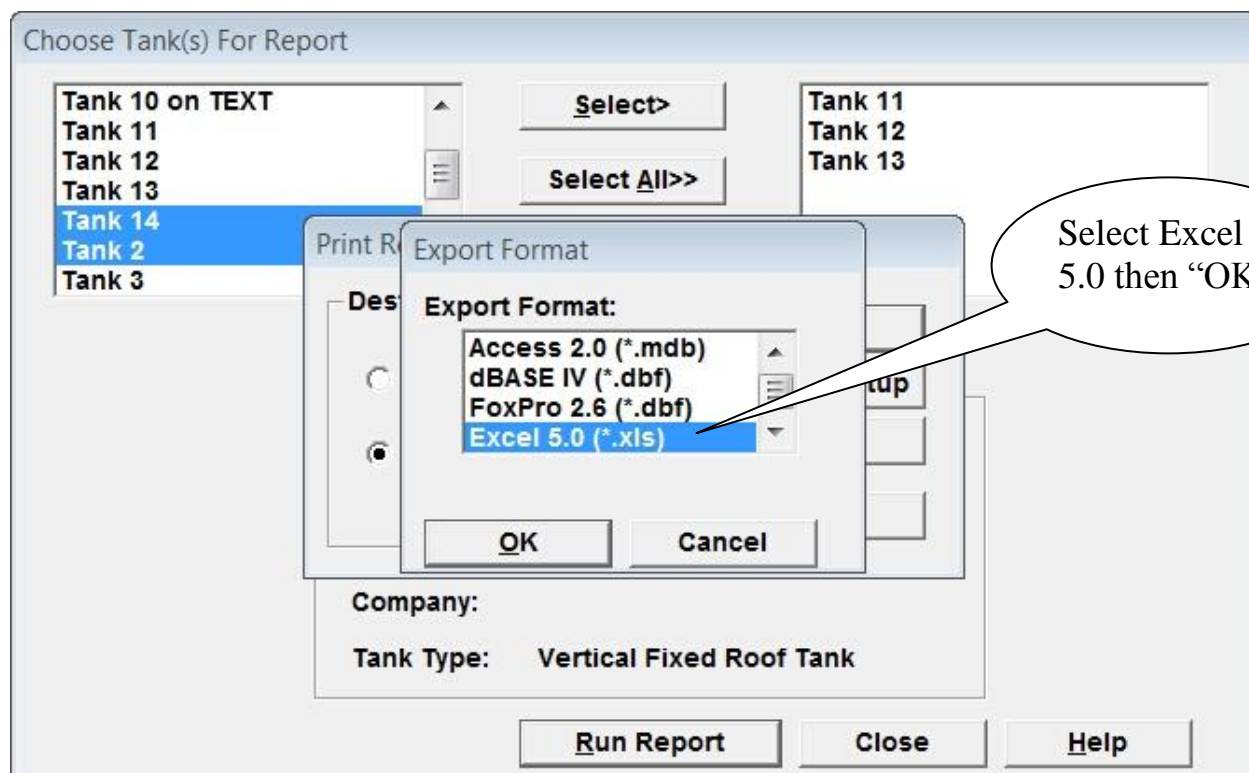
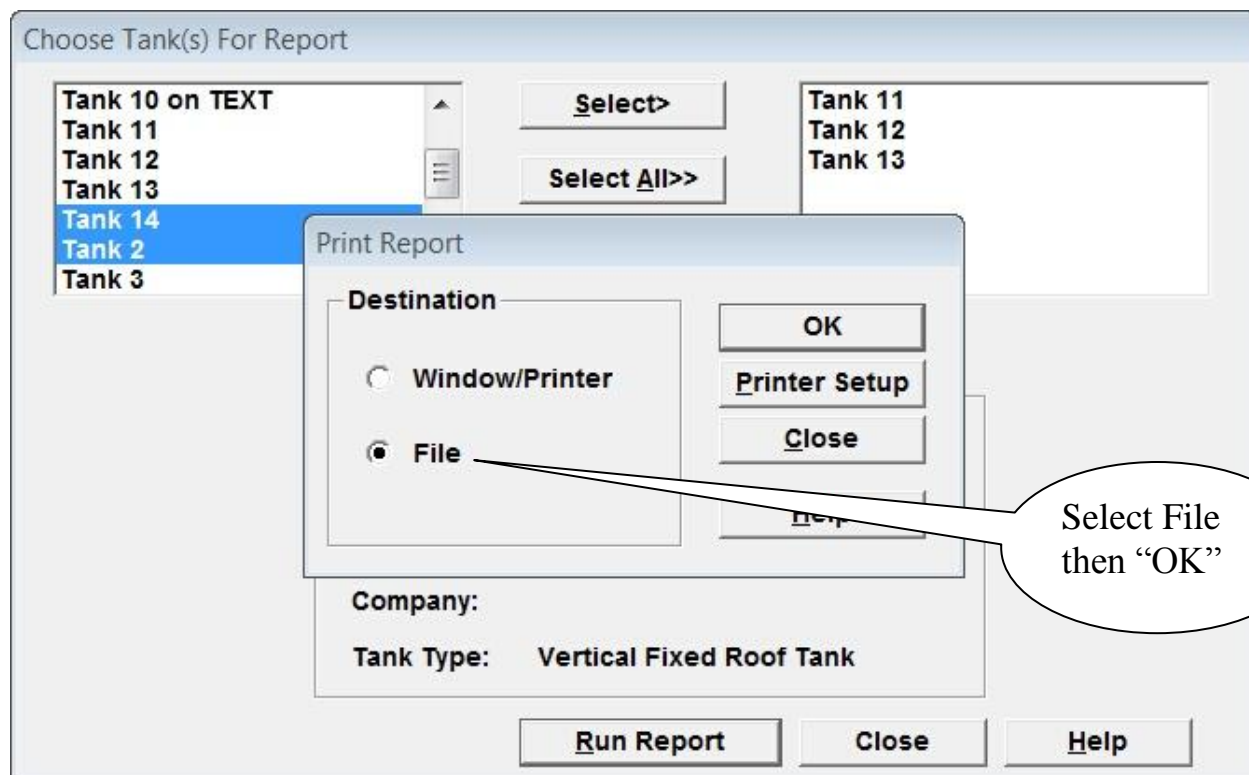
Use this to build and add a profile specific to stored material

2. Run Report and Exporting EPA TANKS Data

The EPA TANKS program allows exporting tank data to either a print-out or to an electronic form such as MS Excel format. The program is also capable of reporting one tank at a time or multiple tanks in one report.

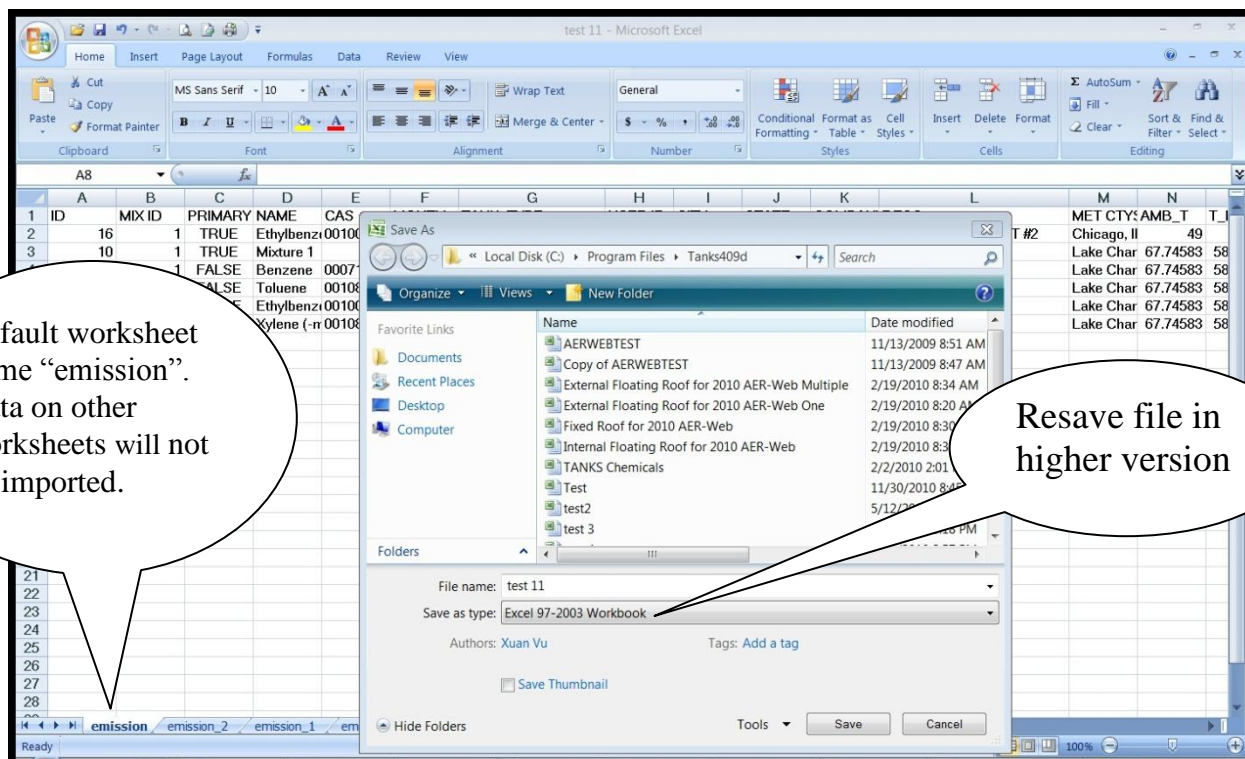
The AER Web Program is designed to accept output data file from the EPA TANKS program. Since the AER Web Program only recognizes a single worksheet named “emission” in the excel output file, it is recommended that emission data from all tanks (both fixed and floating roof) be reported in one excel output file. The series of screenshots below illustrate the procedure to report all tanks in one output file:





The TANKS will ask for destination and name of a file. The default worksheet is “emission” where all data be exported to.

NOTE: AER Web only accept data from an excel file that are saved in later version of MS Excel format. User must open the export Excel 5.0 file and re-save it in Microsoft Excel 97-2003 or higher.



3. Importing Tanks Data into AER Web Program

Open the AER web based application. Go to “Form Data Entry” and open up your desired form (B6, B7, or B7U). The import button is all the way over to the right (scroll over to the right). Click the “IMPORT TANK” button, and browse to find the correct excel file created by the Tanks program. Open the file and click on “IMPORT TANK PROGRAM”.

Trouble Shooting

If the AER web application returns an error, use the following line of reasoning to check the tank output excel file generated by the EPA Tank 4.0.9d Program:

1. The EPA TANKS output excel file must be generated as “ANNUAL” and “DETAIL”
2. The excel file must contain 98 columns in exact order as generated by EPA TANKS program

3. USER ID in column H must be single data in alpha numeric format (combination of letters and numbers) and must not contain any special characters or spaces and is limited to 6 characters in length.
4. Column F (MONTH) must contain ANNUAL data only -- not monthly data.
5. The Excel file must be re-saved in Microsoft Excel 97-2003 type or higher, before importing to the web application.

It is best not to fix the errors in the excel spreadsheet, when importing full year data. Go back to the EPA Program and rerun it after fixing the errors.

4. Running Partial Year Data

The following procedures are for tanks that are used only part of the year.

In EPA TANKS, simply select the months and distribute throughputs accordingly. Save the data then run the report in a group of tanks as mentioned Section 2.

Note that this tank stores two different materials in two months (gasoline in January and JP-4 in February).

External Floating Roof Tank

Identification | Physical Characteristics | Site Selection | Tank Contents | Monthly Calculations

	Throughput	Mixture Name
JAN: <input checked="" type="checkbox"/>	30,000,000.00	Gasoline (RVP 10)
FEB: <input checked="" type="checkbox"/>	60,000,000.00	Jet naphtha (JP-4)
MAR: <input type="checkbox"/>	0.00	
APR: <input type="checkbox"/>	0.00	
MAY: <input type="checkbox"/>	0.00	
JUN: <input type="checkbox"/>	0.00	
JUL: <input type="checkbox"/>	0.00	
AUG: <input type="checkbox"/>	0.00	
SEP: <input type="checkbox"/>	0.00	
OCT: <input type="checkbox"/>	0.00	
NOV: <input type="checkbox"/>	0.00	
DEC: <input type="checkbox"/>	0.00	

Annual Throughput Specified
90,000,000.00

Total for Months
90,000,000.0

Fill Mixture Names With First Mixture Name

Distribute Throughput

Copy | Run Report | Save | Close | Help

The web application does not recognize monthly data. The excel file will have to be modified in order to successfully import data. The series of screenshots illustrated the modification of the excel data file to meet the specifications in the AER Web.

Tips for Successfully Working with EPA TANKS Data

Note that this illustration is for a single tank data. User should pay more attention to specific tank data if the report is executed as group of tanks.

The first image shows the original excel data exported by the EPA TANKS. The second image shows the modifications (highlighted) of data.

D25												
	A	B	C	D	E	F	G	H	I	J	K	L
1	ID	MIX ID	PRIMARY	NAME	CAS	MONTH	TANK_TYPE	USER ID	CITY	STATE	COMPAN	DESC
2	8	1	TRUE	Jet naphtha (JP-4)	00067-63-	February	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
3	8	1	FALSE	Benzene	00071-43-	February	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
4	8	1	FALSE	Cyclohexane	00110-82-	February	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
5	8	1	FALSE	Ethylbenzene	00100-41-	February	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
6	8	1	FALSE	Hexane (-n)	00110-54-	February	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
7	8	1	FALSE	Isopropyl benzene	00098-82-	February	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
8	8	1	FALSE	Toluene	00108-88-	February	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
9	8	1	FALSE	Unidentified Component	00110-82-	February	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
10	8	1	FALSE	Xylene (-m)	00108-38-	February	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
11	8	2	TRUE	Gasoline (RVP 10)		January	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
12	8	2	FALSE	1,2,4-Trimethylbenzene	00095-63-	January	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
13	8	2	FALSE	Benzene	00071-43-	January	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
14	8	2	FALSE	Cyclohexane	00110-82-	January	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
15	8	2	FALSE	Ethylbenzene	00100-41-	January	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
16	8	2	FALSE	Hexane (-n)	00110-54-	January	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
17	8	2	FALSE	Isooctane	26635-64-	January	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
18	8	2	FALSE	Isopropyl benzene	00098-82-	January	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
19	8	2	FALSE	Toluene	00108-88-	January	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
20	8	2	FALSE	Unidentified Component	00110-82-	January	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
21	8	2	FALSE	Xylene (-m)	00108-38-	January	External Floating Roof Tank	Tank8	Meridian	Mississippi	C	Sample EFRT#2
22												

Stored materials are identified:
TRUE = VOC,
FALSE = toxics.

Monthly data in
column F changed to
Annual

USER ID in column
H must be unique
for each month data

Change description in
column L for records

ID	MIX ID	PRIMARY	NAME	CAS	MONTH	TANK_TYPE	USER ID	CITY	STATE	COMP	DESC	MET CT
1	8	1	TRUE	Jet naphtha (JP-4)	00067-63-1	Annual	External Floatin D234A	Meridian	Mississippi	C	Device D234 store JP4 in February	Meridian
2	8	1	FALSE	Benzene	00071-43-1	Annual	External Floatin D234A	Meridian	Mississippi	C	Device D234 store JP4 in February	Meridian
3	8	1	FALSE	Cyclohexane	00110-82-1	Annual	External Floatin D234A	Meridian	Mississippi	C	Device D234 store JP4 in February	Meridian
4	8	1	FALSE	Ethylbenzene	00100-41-1	Annual	External Floatin D234A	Meridian	Mississippi	C	Device D234 store JP4 in February	Meridian
5	8	1	FALSE	Hexane (-n)	00110-54-1	Annual	External Floatin D234A	Meridian	Mississippi	C	Device D234 store JP4 in February	Meridian
6	8	1	FALSE	Isopropyl benzene	00098-82-1	Annual	External Floatin D234A	Meridian	Mississippi	C	Device D234 store JP4 in February	Meridian
7	8	1	FALSE	Toluene	00108-88-1	Annual	External Floatin D234A	Meridian	Mississippi	C	Device D234 store JP4 in February	Meridian
8	8	1	FALSE	Unidentified Component	00110-82-1	Annual	External Floatin D234A	Meridian	Mississippi	C	Device D234 store JP4 in February	Meridian
9	8	1	FALSE	Xylene (-m)	00108-38-1	Annual	External Floatin D234A	Meridian	Mississippi	C	Device D234 store JP4 in February	Meridian
10	8	2	TRUE	Gasoline (RVP 10)		Annual	External Floatin D234B	Meridian	Mississippi	C	Device D234 store gasoline in January	Meridian
11	8	2	FALSE	1,2,4-Trimethylbenzene	00095-63-1	Annual	External Floatin D234B	Meridian	Mississippi	C	Device D234 store gasoline in January	Meridian
12	8	2	FALSE	Benzene	00071-43-1	Annual	External Floatin D234B	Meridian	Mississippi	C	Device D234 store gasoline in January	Meridian
13	8	2	FALSE	Cyclohexane	00110-82-1	Annual	External Floatin D234B	Meridian	Mississippi	C	Device D234 store gasoline in January	Meridian
14	8	2	FALSE	Ethylbenzene	00100-41-1	Annual	External Floatin D234B	Meridian	Mississippi	C	Device D234 store gasoline in January	Meridian
15	8	2	FALSE	Hexane (-n)	00110-54-1	Annual	External Floatin D234B	Meridian	Mississippi	C	Device D234 store gasoline in January	Meridian
16	8	2	FALSE	Isooctane	26635-64-1	Annual	External Floatin D234B	Meridian	Mississippi	C	Device D234 store gasoline in January	Meridian
17	8	2	FALSE	Isopropyl benzene	00098-82-1	Annual	External Floatin D234B	Meridian	Mississippi	C	Device D234 store gasoline in January	Meridian
18	8	2	FALSE	Toluene	00108-88-1	Annual	External Floatin D234B	Meridian	Mississippi	C	Device D234 store gasoline in January	Meridian
19	8	2	FALSE	Unidentified Component	00110-82-1	Annual	External Floatin D234B	Meridian	Mississippi	C	Device D234 store gasoline in January	Meridian
20	8	2	FALSE	Xylene (-m)	00108-38-1	Annual	External Floatin D234B	Meridian	Mississippi	C	Device D234 store gasoline in January	Meridian

Make sure the file is saved in Microsoft Excel 97-2003 type or higher.

In AER Web, select Form B6, B7 or B7U and import the excel file. In this example, after successfully importing the data, Form B6 shows:

South Coast Air Quality Management District
 xvu@aqmd.gov
 XUAN V VU

Form Data Entry Form Selection Submission Review Forms & Reports Manage Users Device Management Flag Report Help & Support Home

FACILITY : 999999 Year 2010 +

B6 - Permitted Internal/External Floating Roof Tank Calculation Sheet

ADD RECORDS

#	Tank ID	Tank Description	Tank Diameter	Tank Capacity (1000 gallons)	Product Description	Annual Throughput (1000 gallons)	Vapor Molecular Weight	Liquid Density	Material True Vapor Pressure	TAC/ODC
1	D234A	Device D234 store JP4 in February	75	2250	4. JET NAPHTHA (JP-4)	60,000.00	80	6.4	1.418799	N 0.0
2	D234B	Device D234 store gasoline in January	75	2250	10. GASOLINE (RVP 10)	30,000.00	66	5.6	5.283231	N 0.

First Prev Page 1 of 1 (2 records) Next Last Page 1 Export To Excel

Note that emissions from individual tanks are calculated for the specific period when tanks were in use; therefore, there is no need to adjust the usage factor on Form B7 or B7U for fixed roof tanks.